

Chemical Analysis Report

SE-DIST-2022-04-28-01

Florida Department of Environmental Protection
Central Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

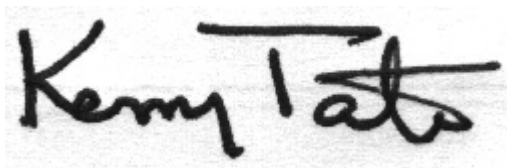
Event Description: **Keys 2022 - Day A - 5 sites**
Request ID: **RQ-2022-03-07-59**
Customer: **SE-DIST**
Project ID: **SMP**

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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 24-MAY-2022 10:30

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Gulf of Mexico near Plantation Key

Collection Date/Time: 04/27/2022 11:00

Field ID: G5SE0123

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322902	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P413078	
	SM 2320 B-2011	Total Alkalinity	124		mg CaCO3/L	P413539	
	SM 2540 D-2011	TSS	5	I	mg/L	P413518	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P413546	
2322907	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P413433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39	I	mg N/L	P413477	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413137	
	EPA 365.1 Rev. 2.0	Total-P	0.007	I	mg P/L	P413405	MS
	SM 5310 B-2011	Organic Carbon	3.7	I	mg C/L	P413450	
2322917	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P413158	
		Acetochlor	0.24	U	ng/L	P413158	
		Octinoxate**	19	U	ng/L	P413158	
		Alachlor	0.24	U	ng/L	P413158	
		Avobenzone**	95	U	ng/L	P413158	
		Ametryn	0.57	U	ng/L	P413158	
		Atrazine	0.51	I	ng/L	P413158	
		Atrazine Desethyl	1.4	U	ng/L	P413158	
		Azinphos Methyl	1.9	U	ng/L	P413158	
		Azoxystrobin**	0.48	U	ng/L	P413158	
		Bromacil	0.48	U	ng/L	P413158	
		Butylate	0.38	U	ng/L	P413158	
		Caffeine**	29		ng/L	P413158	
		Carbophenothion	0.19	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.095	U	ng/L	P413158	
		Chlorfenapyr**	0.17	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.048	U	ng/L	P413158	
		Coumaphos**	0.48	U	ng/L	P413158	
		Cyanazine	3.1	U	ng/L	P413158	
		Cyprodinil**	0.095	U	ng/L	P413158	
		Demeton	1.4	U	ng/L	P413158	
		Diazinon	0.12	U	ng/L	P413158	
		Difenoconazole**	0.57	U	ng/L	P413158	
		Dimethenamid**	0.095	U	ng/L	P413158	
		Dimethomorph**	0.17	U	ng/L	P413158	
		Disulfoton	0.48	U	ng/L	P413158	
		Dithiopyr**	0.17	U	ng/L	P413158	
		EPTC	1.2	U	ng/L	P413158	
		Ethion	0.14	U	ng/L	P413158	
		Ethoprop	0.095	U	ng/L	P413158	
		Etridiazole**	0.14	U	ng/L	P413158	
		Fenamiphos	0.48	U	ng/L	P413158	
		Fenbuconazole**	0.12	U	ng/L	P413158	
		Fipronil	0.24	U	ng/L	P413158	

Field ID: G5SE0123

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322917	EPA 8270E	Fipronil Desulfinyl**	0.12	U	ng/L	P413158	
		Fipronil Sulfide	0.14	U	ng/L	P413158	
		Fipronil Sulfone	0.14	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.095	U	ng/L	P413158	
		Fludioxonil**	0.12	U	ng/L	P413158	
		Flumioxazin**	1.7	U	ng/L	P413158	
		Flutolanil**	0.095	U	ng/L	P413158	
		Fluxapyroxad**	0.095	U	ng/L	P413158	
		Fonofos	0.19	U	ng/L	P413158	
		Hexazinone	0.48	U	ng/L	P413158	
		Imazalil**	0.72	U	ng/L	P413158	
		Iprodione**	0.57	U	ng/L	P413158	
		Loratadine**	0.095	U	ng/L	P413158	
		Malathion	0.33	U	ng/L	P413158	
		Metalaxyl	0.72	U	ng/L	P413158	
		Metolachlor	0.33	U	ng/L	P413158	
		Metribuzin	2.4	U	ng/L	P413158	
		Mevinphos	1.0	U	ng/L	P413158	
		Molinate	0.29	U	ng/L	P413158	
		Myclobutanil**	0.24	U	ng/L	P413158	
		Naled**	1.4	U	ng/L	P413158	
		Napropamide**	0.38	U	ng/L	P413158	
		Norflurazon	0.48	U	ng/L	P413158	
		Oxadiazon	0.29	U	ng/L	P413158	
		Oxyfluorfen**	0.14	U	ng/L	P413158	
		Parathion Ethyl	0.24	U	ng/L	P413158	
		Parathion Methyl	0.52	U	ng/L	P413158	
		Pendimethalin	0.95	U	ng/L	P413158	
		Phenytol**	3.3	U	ng/L	P413158	
		Phorate	0.50	U	ng/L	P413158	
		Prodiamine**	0.17	U	ng/L	P413158	
		Prometon	0.86	U	ng/L	P413158	
		Prometryn	0.19	U	ng/L	P413158	
		Pronamide**	0.14	U	ng/L	P413158	
		Propanil**	0.12	U	ng/L	P413158	
		Propargite**	1.4	U	ng/L	P413158	
		Propiconazole**	0.48	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.24	U	ng/L	P413158	
		Pyridaben**	0.43	U	ng/L	P413158	
		Pyriproxyfen**	0.12	U	ng/L	P413158	
		Simazine	0.48	U	ng/L	P413158	
		Stirophos**	0.12	U	ng/L	P413158	
		Sulfentrazone**	0.48	U	ng/L	P413158	
		Tebuconazole**	0.48	U	ng/L	P413158	
		Terbufos	0.095	U	ng/L	P413158	

Field ID: G5SE0123

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322917	EPA 8270E	Terbutylazine	0.41	U	ng/L	P413158	
		Thiobencarb**	0.57	U	ng/L	P413158	
		Triadimefon**	0.24	U	ng/L	P413158	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Gulf of Mexico mouth near Tavernier Creek

Collection Date/Time: 04/27/2022 11:10

Field ID: G5SE0124

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322903	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P413078	
	SM 2320 B-2011	Total Alkalinity	124		mg CaCO3/L	P413539	
	SM 2540 D-2011	TSS	6	I	mg/L	P413518	
	SM 4500-F- C-2011	Fluoride	1.2		mg F/L	P413546	
2322908	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P413433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.38	I	mg N/L	P413477	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413137	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P413405	MS
	SM 5310 B-2011	Organic Carbon	5.4		mg C/L	P413450	
2322918	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P413158	
		Acetochlor	0.24	U	ng/L	P413158	
		Octinoxate**	19	U	ng/L	P413158	
		Alachlor	0.24	U	ng/L	P413158	
		Avobenzone**	95	U	ng/L	P413158	
		Ametryn	0.57	U	ng/L	P413158	
		Atrazine	0.71	I	ng/L	P413158	
		Atrazine Desethyl	1.4	U	ng/L	P413158	
		Azinphos Methyl	1.9	U	ng/L	P413158	
		Azoxystrobin**	0.47	U	ng/L	P413158	
		Bromacil	0.47	U	ng/L	P413158	
		Butylate	0.38	U	ng/L	P413158	
		Caffeine**	21	I	ng/L	P413158	
		Carbophenothion	0.19	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.095	U	ng/L	P413158	
		Chlorfenapyr**	0.17	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.047	U	ng/L	P413158	
		Coumaphos**	0.47	U	ng/L	P413158	
		Cyanazine	3.1	U	ng/L	P413158	
		Cyprodinil**	0.095	U	ng/L	P413158	
		Demeton	1.4	U	ng/L	P413158	
		Diazinon	0.12	U	ng/L	P413158	
		Difenoconazole**	0.57	U	ng/L	P413158	
		Dimethenamid**	0.095	U	ng/L	P413158	
		Dimethomorph**	0.17	U	ng/L	P413158	
		Disulfoton	0.47	U	ng/L	P413158	
		Dithiopyr**	0.17	U	ng/L	P413158	
		EPTC	1.2	U	ng/L	P413158	
		Ethion	0.14	U	ng/L	P413158	
		Ethoprop	0.095	U	ng/L	P413158	
		Etridiazole**	0.14	U	ng/L	P413158	
		Fenamiphos	0.47	U	ng/L	P413158	
		Fenbuconazole**	0.12	U	ng/L	P413158	
		Fipronil	0.24	U	ng/L	P413158	

Field ID: G5SE0124

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322918	EPA 8270E	Fipronil Desulfinyl**	0.12	U	ng/L	P413158	
		Fipronil Sulfide	0.14	U	ng/L	P413158	
		Fipronil Sulfone	0.14	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.095	U	ng/L	P413158	
		Fludioxonil**	0.12	U	ng/L	P413158	
		Flumioxazin**	1.7	U	ng/L	P413158	
		Flutolanil**	0.095	U	ng/L	P413158	
		Fluxapyroxad**	0.095	U	ng/L	P413158	
		Fonofos	0.19	U	ng/L	P413158	
		Hexazinone	0.47	U	ng/L	P413158	
		Imazalil**	0.71	U	ng/L	P413158	
		Iprodione**	0.57	U	ng/L	P413158	
		Loratadine**	0.095	U	ng/L	P413158	
		Malathion	0.33	U	ng/L	P413158	
		Metalaxyl	0.71	U	ng/L	P413158	
		Metolachlor	0.33	U	ng/L	P413158	
		Metribuzin	2.4	U	ng/L	P413158	
		Mevinphos	0.99	U	ng/L	P413158	
		Molinate	0.28	U	ng/L	P413158	
		Myclobutanil**	0.24	U	ng/L	P413158	
		Naled**	1.4	U	ng/L	P413158	
		Napropamide**	0.38	U	ng/L	P413158	
		Norflurazon	0.47	U	ng/L	P413158	
		Oxadiazon	0.28	U	ng/L	P413158	
		Oxyfluorfen**	0.14	U	ng/L	P413158	
		Parathion Ethyl	0.24	U	ng/L	P413158	
		Parathion Methyl	0.52	U	ng/L	P413158	
		Pendimethalin	0.95	U	ng/L	P413158	
		Phenytol**	3.3	U	ng/L	P413158	
		Phorate	0.50	U	ng/L	P413158	
		Prodiamine**	0.17	U	ng/L	P413158	
		Prometon	0.85	U	ng/L	P413158	
		Prometryn	0.19	U	ng/L	P413158	
		Pronamide**	0.14	U	ng/L	P413158	
		Propanil**	0.12	U	ng/L	P413158	
		Propargite**	1.4	U	ng/L	P413158	
		Propiconazole**	0.47	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.24	U	ng/L	P413158	
		Pyridaben**	0.43	U	ng/L	P413158	
		Pyriproxyfen**	0.12	U	ng/L	P413158	
		Simazine	0.47	U	ng/L	P413158	
		Stirophos**	0.12	U	ng/L	P413158	
		Sulfentrazone**	0.47	U	ng/L	P413158	
		Tebuconazole**	0.47	U	ng/L	P413158	
		Terbufos	0.095	U	ng/L	P413158	

Field ID: G5SE0124

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322918	EPA 8270E	Terbutylazine	0.40	U	ng/L	P413158	
		Thiobencarb**	0.57	U	ng/L	P413158	
		Triadimefon**	0.24	U	ng/L	P413158	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Gulf of Mexico mouth of Snake Creek

Collection Date/Time: 04/27/2022 11:35

Field ID: G5SE0122

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322904	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P413078	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P413539	
	SM 2540 D-2011	TSS	4	I	mg/L	P413518	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P413546	
2322909	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P413433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P413477	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P413137	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P413542	
	SM 5310 B-2011	Organic Carbon	2.0	U	mg C/L	P413450	
2322919	EPA 8270E	Oxybenzone**	10	U	ng/L	P413158	
		Acetochlor	0.24	U	ng/L	P413158	
		Octinoxate**	20	U	ng/L	P413158	
		Alachlor	0.24	U	ng/L	P413158	
		Avobenzone**	100	U	ng/L	P413158	
		Ametryn	0.57	U	ng/L	P413158	
		Atrazine	0.48	I	ng/L	P413158	
		Atrazine Desethyl	1.4	U	ng/L	P413158	
		Azinphos Methyl	1.9	U	ng/L	P413158	
		Azoxystrobin**	0.47	U	ng/L	P413158	
		Bromacil	0.47	U	ng/L	P413158	
		Butylate	0.38	U	ng/L	P413158	
		Caffeine**	7.1	U	ng/L	P413158	
		Carbophenothion	0.19	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.095	U	ng/L	P413158	
		Chlorfenapyr**	0.17	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.047	U	ng/L	P413158	
		Coumaphos**	0.47	U	ng/L	P413158	
		Cyanazine	3.1	U	ng/L	P413158	
		Cyprodinil**	0.095	U	ng/L	P413158	
		Demeton	1.4	U	ng/L	P413158	
		Diazinon	0.12	U	ng/L	P413158	
		Difenoconazole**	0.57	U	ng/L	P413158	
		Dimethenamid**	0.095	U	ng/L	P413158	
		Dimethomorph**	0.17	U	ng/L	P413158	
		Disulfoton	0.47	U	ng/L	P413158	
		Dithiopyr**	0.17	U	ng/L	P413158	
		EPTC	1.2	U	ng/L	P413158	
		Ethion	0.14	U	ng/L	P413158	
		Ethoprop	0.095	U	ng/L	P413158	
		Etridiazole**	0.14	U	ng/L	P413158	
		Fenamiphos	0.47	U	ng/L	P413158	
		Fenbuconazole**	0.12	U	ng/L	P413158	
		Fipronil	0.24	U	ng/L	P413158	

Field ID: G5SE0122

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322919	EPA 8270E	Fipronil Desulfinyl**	0.12	U	ng/L	P413158	
		Fipronil Sulfide	0.14	U	ng/L	P413158	
		Fipronil Sulfone	0.14	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.095	U	ng/L	P413158	
		Fludioxonil**	0.12	U	ng/L	P413158	
		Flumioxazin**	1.7	U	ng/L	P413158	
		Flutolanil**	0.095	U	ng/L	P413158	
		Fluxapyroxad**	0.095	U	ng/L	P413158	
		Fonofos	0.19	U	ng/L	P413158	
		Hexazinone	0.47	U	ng/L	P413158	
		Imazalil**	0.71	U	ng/L	P413158	
		Iprodione**	0.57	U	ng/L	P413158	
		Loratadine**	0.095	U	ng/L	P413158	
		Malathion	0.33	U	ng/L	P413158	
		Metalaxyl	0.71	U	ng/L	P413158	
		Metolachlor	0.33	U	ng/L	P413158	
		Metribuzin	2.4	U	ng/L	P413158	
		Mevinphos	0.99	U	ng/L	P413158	
		Molinate	0.28	U	ng/L	P413158	
		Myclobutanil**	0.24	U	ng/L	P413158	
		Naled**	1.4	U	ng/L	P413158	
		Napropamide**	0.38	U	ng/L	P413158	
		Norflurazon	0.47	U	ng/L	P413158	
		Oxadiazon	0.28	U	ng/L	P413158	
		Oxyfluorfen**	0.14	U	ng/L	P413158	
		Parathion Ethyl	0.24	U	ng/L	P413158	
		Parathion Methyl	0.52	U	ng/L	P413158	
		Pendimethalin	0.95	U	ng/L	P413158	
		Phenytol**	3.3	U	ng/L	P413158	
		Phorate	0.50	U	ng/L	P413158	
		Prodiamine**	0.17	U	ng/L	P413158	
		Prometon	0.85	U	ng/L	P413158	
		Prometryn	0.19	U	ng/L	P413158	
		Pronamide**	0.14	U	ng/L	P413158	
		Propanil**	0.12	U	ng/L	P413158	
		Propargite**	1.4	U	ng/L	P413158	
		Propiconazole**	0.47	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.24	U	ng/L	P413158	
		Pyridaben**	0.43	U	ng/L	P413158	
		Pyriproxyfen**	0.12	U	ng/L	P413158	
		Simazine	0.47	U	ng/L	P413158	
		Stirophos**	0.12	U	ng/L	P413158	
		Sulfentrazone**	0.47	U	ng/L	P413158	
		Tebuconazole**	0.47	U	ng/L	P413158	
		Terbufos	0.095	U	ng/L	P413158	

Field ID: G5SE0122

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322919	EPA 8270E	Terbutylazine	0.40	U	ng/L	P413158	
		Thiobencarb**	0.57	U	ng/L	P413158	
		Triadimefon**	0.24	U	ng/L	P413158	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Atlantic Ocean Whale Harbor Channel

Collection Date/Time: 04/27/2022 12:05

Field ID: G5SE0126

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322905	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P413078	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P413539	
	SM 2540 D-2011	TSS	5	I	mg/L	P413518	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P413546	
2322910	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P413433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23	I	mg N/L	P413477	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413137	
	EPA 365.1 Rev. 2.0	Total-P	0.006	I	mg P/L	P413542	
	SM 5310 B-2011	Organic Carbon	2.8	I	mg C/L	P413818	
2322920	EPA 8270E	Oxybenzone**	9.4	U	ng/L	P413158	
		Acetochlor	0.23	U	ng/L	P413158	
		Octinoxate**	19	U	ng/L	P413158	
		Alachlor	0.23	U	ng/L	P413158	
		Avobenzone**	94	U	ng/L	P413158	
		Ametryn	0.56	U	ng/L	P413158	
		Atrazine	0.50	I	ng/L	P413158	
		Atrazine Desethyl	1.4	U	ng/L	P413158	
		Azinphos Methyl	1.9	U	ng/L	P413158	
		Azoxystrobin**	0.47	U	ng/L	P413158	
		Bromacil	0.47	U	ng/L	P413158	
		Butylate	0.38	U	ng/L	P413158	
		Caffeine**	89		ng/L	P413158	
		Carbophenothion	0.19	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.094	U	ng/L	P413158	
		Chlorfenapyr**	0.16	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.23	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.047	U	ng/L	P413158	
		Coumaphos**	0.47	U	ng/L	P413158	
		Cyanazine	3.0	U	ng/L	P413158	
		Cyprodinil**	0.094	U	ng/L	P413158	
		Demeton	1.4	U	ng/L	P413158	
		Diazinon	0.12	U	ng/L	P413158	
		Difenoconazole**	0.56	U	ng/L	P413158	
		Dimethenamid**	0.094	U	ng/L	P413158	
		Dimethomorph**	0.16	U	ng/L	P413158	
		Disulfoton	0.47	U	ng/L	P413158	
		Dithiopyr**	0.16	U	ng/L	P413158	
		EPTC	1.2	U	ng/L	P413158	
		Ethion	0.14	U	ng/L	P413158	
		Ethoprop	0.094	U	ng/L	P413158	
		Etridiazole**	0.14	U	ng/L	P413158	
		Fenamiphos	0.47	U	ng/L	P413158	
		Fenbuconazole**	0.12	U	ng/L	P413158	
		Fipronil	0.23	U	ng/L	P413158	

Field ID: G5SE0126

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322920	EPA 8270E	Fipronil Desulfinyl**	0.12	U	ng/L	P413158	
		Fipronil Sulfide	0.14	U	ng/L	P413158	
		Fipronil Sulfone	0.14	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.094	U	ng/L	P413158	
		Fludioxonil**	0.12	U	ng/L	P413158	
		Flumioxazin**	1.6	U	ng/L	P413158	
		Flutolanil**	0.094	U	ng/L	P413158	
		Fluxapyroxad**	0.094	U	ng/L	P413158	
		Fonofos	0.19	U	ng/L	P413158	
		Hexazinone	0.47	U	ng/L	P413158	
		Imazalil**	0.70	U	ng/L	P413158	
		Iprodione**	0.56	U	ng/L	P413158	
		Loratadine**	0.094	U	ng/L	P413158	
		Malathion	0.33	U	ng/L	P413158	
		Metalaxyl	0.70	U	ng/L	P413158	
		Metolachlor	0.33	U	ng/L	P413158	
		Metribuzin	2.3	U	ng/L	P413158	
		Mevinphos	0.98	U	ng/L	P413158	
		Molinate	0.28	U	ng/L	P413158	
		Myclobutanil**	0.23	U	ng/L	P413158	
		Naled**	1.4	U	ng/L	P413158	
		Napropamide**	0.38	U	ng/L	P413158	
		Norflurazon	0.47	U	ng/L	P413158	
		Oxadiazon	0.28	U	ng/L	P413158	
		Oxyfluorfen**	0.14	U	ng/L	P413158	
		Parathion Ethyl	0.23	U	ng/L	P413158	
		Parathion Methyl	0.52	U	ng/L	P413158	
		Pendimethalin	0.94	U	ng/L	P413158	
		Phenytol**	3.3	U	ng/L	P413158	
		Phorate	0.49	U	ng/L	P413158	
		Prodiamine**	0.16	U	ng/L	P413158	
		Prometon	0.84	U	ng/L	P413158	
		Prometryn	0.19	U	ng/L	P413158	
		Pronamide**	0.14	U	ng/L	P413158	
		Propanil**	0.12	U	ng/L	P413158	
		Propargite**	1.4	U	ng/L	P413158	
		Propiconazole**	0.47	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.23	U	ng/L	P413158	
		Pyridaben**	0.42	U	ng/L	P413158	
		Pyriproxyfen**	0.12	U	ng/L	P413158	
		Simazine	0.47	U	ng/L	P413158	
		Stirophos**	0.12	U	ng/L	P413158	
		Sulfentrazone**	0.47	U	ng/L	P413158	
		Tebuconazole**	0.47	U	ng/L	P413158	
		Terbufos	0.094	U	ng/L	P413158	

Field ID: G5SE0126

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322920	EPA 8270E	Terbutylazine	0.40	U	ng/L	P413158	
		Thiobencarb**	0.56	U	ng/L	P413158	
		Triadimefon**	0.23	U	ng/L	P413158	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Atlantic Ocean near Islamorada

Collection Date/Time: 04/27/2022 12:35

Field ID: G5SE0125

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322906	EPA 180.1 Rev. 2.0	Turbidity	0.75	I	NTU	P413078	
	SM 2320 B-2011	Total Alkalinity	118		mg CaCO3/L	P413539	
	SM 2540 D-2011	TSS	5	IA	mg/L	P413518	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P413546	
2322911	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P413433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P413481	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413137	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P413542	
	SM 5310 B-2011	Organic Carbon	3.1	I	mg C/L	P413818	
2322921	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P413158	
		Acetochlor	0.24	U	ng/L	P413158	
		Octinoxate**	19	U	ng/L	P413158	
		Alachlor	0.24	U	ng/L	P413158	
		Avobenzone**	95	U	ng/L	P413158	
		Ametryn	0.57	U	ng/L	P413158	
		Atrazine	0.44	I	ng/L	P413158	
		Atrazine Desethyl	1.4	U	ng/L	P413158	
		Azinphos Methyl	1.9	U	ng/L	P413158	
		Azoxystrobin**	0.47	U	ng/L	P413158	
		Bromacil	0.47	U	ng/L	P413158	
		Butylate	0.38	U	ng/L	P413158	
		Caffeine**	17	I	ng/L	P413158	
		Carbophenothion	0.19	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.095	U	ng/L	P413158	
		Chlorfenapyr**	0.17	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.047	U	ng/L	P413158	
		Coumaphos**	0.47	U	ng/L	P413158	
		Cyanazine	3.1	U	ng/L	P413158	
		Cyprodinil**	0.095	U	ng/L	P413158	
		Demeton	1.4	U	ng/L	P413158	
		Diazinon	0.12	U	ng/L	P413158	
		Difenoconazole**	0.57	U	ng/L	P413158	
		Dimethenamid**	0.095	U	ng/L	P413158	
		Dimethomorph**	0.17	U	ng/L	P413158	
		Disulfoton	0.47	U	ng/L	P413158	
		Dithiopyr**	0.17	U	ng/L	P413158	
		EPTC	1.2	U	ng/L	P413158	
		Ethion	0.14	U	ng/L	P413158	
		Ethoprop	0.095	U	ng/L	P413158	
		Etridiazole**	0.14	U	ng/L	P413158	
		Fenamiphos	0.47	U	ng/L	P413158	
		Fenbuconazole**	0.12	U	ng/L	P413158	
		Fipronil	0.24	U	ng/L	P413158	

Field ID: G5SE0125

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322921	EPA 8270E	Fipronil Desulfinyl**	0.12	U	ng/L	P413158	
		Fipronil Sulfide	0.14	U	ng/L	P413158	
		Fipronil Sulfone	0.14	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.095	U	ng/L	P413158	
		Fludioxonil**	0.12	U	ng/L	P413158	
		Flumioxazin**	1.7	U	ng/L	P413158	
		Flutolanil**	0.095	U	ng/L	P413158	
		Fluxapyroxad**	0.095	U	ng/L	P413158	
		Fonofos	0.19	U	ng/L	P413158	
		Hexazinone	0.47	U	ng/L	P413158	
		Imazalil**	0.71	U	ng/L	P413158	
		Iprodione**	0.57	U	ng/L	P413158	
		Loratadine**	0.095	U	ng/L	P413158	
		Malathion	0.33	U	ng/L	P413158	
		Metalaxyl	0.71	U	ng/L	P413158	
		Metolachlor	0.33	U	ng/L	P413158	
		Metribuzin	2.4	U	ng/L	P413158	
		Mevinphos	1.0	U	ng/L	P413158	
		Molinate	0.28	U	ng/L	P413158	
		Myclobutanil**	0.24	U	ng/L	P413158	
		Naled**	1.4	U	ng/L	P413158	
		Napropamide**	0.38	U	ng/L	P413158	
		Norflurazon	0.47	U	ng/L	P413158	
		Oxadiazon	0.28	U	ng/L	P413158	
		Oxyfluorfen**	0.14	U	ng/L	P413158	
		Parathion Ethyl	0.24	U	ng/L	P413158	
		Parathion Methyl	0.52	U	ng/L	P413158	
		Pendimethalin	0.95	U	ng/L	P413158	
		Phenytol**	3.3	U	ng/L	P413158	
		Phorate	0.50	U	ng/L	P413158	
		Prodiamine**	0.17	U	ng/L	P413158	
		Prometon	0.85	U	ng/L	P413158	
		Prometryn	0.19	U	ng/L	P413158	
		Pronamide**	0.14	U	ng/L	P413158	
		Propanil**	0.12	U	ng/L	P413158	
		Propargite**	1.4	U	ng/L	P413158	
		Propiconazole**	0.47	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.24	U	ng/L	P413158	
		Pyridaben**	0.43	U	ng/L	P413158	
		Pyriproxyfen**	0.12	U	ng/L	P413158	
		Simazine	0.47	U	ng/L	P413158	
		Stirophos**	0.12	U	ng/L	P413158	
		Sulfentrazone**	0.47	U	ng/L	P413158	
		Tebuconazole**	0.47	U	ng/L	P413158	
		Terbufos	0.095	U	ng/L	P413158	

Field ID: G5SE0125

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322921	EPA 8270E	Terbutylazine	0.40	U	ng/L	P413158	
		Thiobencarb**	0.57	U	ng/L	P413158	
		Triadimefon**	0.24	U	ng/L	P413158	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413078

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413433

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413477

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413481

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413137

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413405

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413542

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P413158

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413158

Component	Result	Code	Units
Avobenzene	100	U	ng/L
Avobenzene	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413158

Component	Result	Code	Units
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413158

Component	Result	Code	Units
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P413539

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 D-2011
Batch ID: P413518

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413546

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P413450

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P413818

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413078

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	102		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413477

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413405

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.4		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	107		P	70 - 121
Alachlor	97.1		P	68 - 119
Ametryn	79.1		P	64 - 139
Atrazine	113		P	76 - 120
Atrazine Desethyl	77.6		P	44 - 126
Avobenzone	108		P	59 - 206
Azinphos Methyl	104		P	43 - 192
Azoxystrobin	104		P	36 - 224
Bromacil	77.1		P	52 - 121
Butylate	39.4		P	28 - 91.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	88.2		P	50 - 134
Carbophenothion	112		P	56 - 129
Carfentrazone Ethyl	109		P	60 - 141
Chlorfenapyr	103		P	56 - 115
Chlorpyrifos Ethyl	103		P	60 - 118
Chlorpyrifos Methyl	109		P	68 - 119
Coumaphos	97.8		P	18 - 250
Cyanazine	97.7		P	61 - 250
Cyprodinil	122		P	55 - 145
Demeton	92.8		P	30 - 159
Diazinon	119		P	70 - 123
Difenoconazole	147		P	49 - 204
Dimethenamid	89.5		P	64 - 115
Dimethomorph	97.3		P	12 - 219
Disulfoton	111		P	44 - 125
Dithiopyr	97.3		P	64 - 115
EPTC	43.9		P	28 - 86.0
Ethion	82.8		P	33 - 125
Ethoprop	103		P	64 - 116
Etridiazole	53.3		P	34 - 91.0
Fenamiphos	109		P	12 - 127
Fenbuconazole	86.7		P	59 - 151
Fipronil	116		P	67 - 129
Fipronil Desulfinyl	110		P	65 - 127
Fipronil Sulfide	107		P	61 - 116
Fipronil Sulfone	104		P	55 - 117
Fluazifop-P-butyl	123		P	62 - 127
Fludioxonil	103		P	62 - 128
Flumioxazin	136		P	33 - 250
Flutolanil	78.8		P	56 - 127
Fluxapyroxad	88.5		P	45 - 128
Fonofos	102		P	62 - 111
Hexazinone	94.7		P	46 - 139
Imazalil	133		P	38 - 142
Iprodione	98.5		P	47 - 135
Loratadine	84.5		P	10 - 244
Malathion	96.9		P	61 - 139
Metalaxyl	95.1		P	10 - 119
Metolachlor	86.1		P	65 - 118
Metribuzin	89.0		P	51 - 250
Mevinphos	92.3		P	53 - 121
Molinate	75.2		P	42 - 96.0
Myclobutanil	93.0		P	55 - 128
Naled	95.7		P	10 - 98.0
Napropamide	78.2		P	49 - 121
Norflurazon	87.6		P	61 - 126
Octinoxate	70.4		P	25 - 150
Oxadiazon	81.7		P	59 - 116
Oxybenzone	77.6		P	59 - 147
Oxyfluorfen	128		P	64 - 137
Parathion Ethyl	96.8		P	70 - 112
Parathion Methyl	124		P	76 - 133

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	92.9		P	52 - 117
Phenytoin	39.1		P	10 - 199
Phorate	102		P	48 - 121
Prodiamine	49.5		P	26 - 142
Prometon	90.9		P	43 - 123
Prometryn	82.1		P	66 - 127
Pronamide	105		P	75 - 121
Propanil	90.9		P	45 - 150
Propargite	62.1		P	42 - 208
Propiconazole	92.0		P	60 - 125
Pyraflufen Ethyl	98.5		P	70 - 138
Pyridaben	89.3		P	35 - 245
Pyriproxyfen	85.2		P	30 - 149
Simazine	82.4		P	72 - 125
Stirophos	66.6		P	29 - 164
Sulfentrazone	66.0		P	21 - 139
Tebuconazole	54.4		P	10 - 115
Terbufos	111		P	60 - 123
Terbutylazine	87.0		P	72 - 115
Thiobencarb	74.4		P	31 - 139
Triadimefon	102		P	65 - 116

Reference Method: SM 2320 B-2011

Batch ID: P413539

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P413546

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P413450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.9		P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P413818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322907	Ammonia-N	108	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322782	Kjeldahl Nitrogen	101	91.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322780	Kjeldahl Nitrogen	100	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322784	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322786	Total-P	90.4	88.6	P/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322012	Total-P	100	99.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322917	Acetochlor	98.8	88.0	P/P	65 - 124
2322917	Alachlor	110	102	P/P	61 - 121
2322917	Ametryn	91.3	91.3	P/P	52 - 216
2322917	Atrazine	116	116	P/P	68 - 133
2322917	Atrazine Desethyl	108	77.5	P/P	15 - 160
2322917	Avobenzone	114	111	P/P	59 - 206
2322917	Azinphos Methyl	114	103	P/P	40 - 292
2322917	Azoxystrobin	100	101	P/P	12 - 242
2322917	Bromacil	73.5	87.6	P/P	54 - 167
2322917	Butylate	35.6	45.3	P/P	14 - 94.0
2322917	Caffeine	12.9	20.6	P/P	10 - 226
2322917	Carbophenothion	105	94.5	P/P	49 - 122
2322917	Carfentrazone Ethyl	112	98.9	P/P	53 - 138
2322917	Chlorfenapyr	97.5	85.9	P/P	50 - 150
2322917	Chlorpyrifos Ethyl	94.6	86.5	P/P	52 - 122
2322917	Chlorpyrifos Methyl	115	111	P/P	66 - 117

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322917	Coumaphos	79.2	94.2	P/P	50 - 220
2322917	Cyanazine	97.8	98.5	P/P	43 - 245
2322917	Cyprodinil	114	104	P/P	50 - 150
2322917	Demeton	96.3	86.2	P/P	43 - 188
2322917	Diazinon	117	125	P/P	69 - 131
2322917	Difenoconazole	152	135	P/P	34 - 231
2322917	Dimethenamid	97.2	85.4	P/P	55 - 118
2322917	Dimethomorph	97.5	111	P/P	50 - 150
2322917	Disulfoton	111	101	P/P	38 - 141
2322917	Dithiopyr	105	96.4	P/P	42 - 116
2322917	EPTC	59.8	67.8	P/P	18 - 85.0
2322917	Ethion	86.9	64.3	P/P	10 - 131
2322917	Ethoprop	95.6	97.4	P/P	65 - 129
2322917	Etridiazole	65.3	69.2	P/P	50 - 150
2322917	Fenamiphos	65.4	79.1	P/P	31 - 137
2322917	Fenbuconazole	89.3	93.6	P/P	57 - 160
2322917	Fipronil	120	109	P/P	62 - 132
2322917	Fipronil Desulfinyl	127	118	P/P	57 - 131
2322917	Fipronil Sulfide	97.7	92.2	P/P	15 - 138
2322917	Fipronil Sulfone	113	98.9	P/P	21 - 134
2322917	Fluazifop-P-butyl	111	103	P/P	54 - 133
2322917	Fludioxonil	105	100	P/P	58 - 127
2322917	Flumioxazin	169	151	P/P	33 - 300
2322917	Flutolanil	79.9	78.4	P/P	42 - 130
2322917	Fluxapyroxad	90.7	83.5	P/P	23 - 141
2322917	Fonofos	99.4	108	P/P	58 - 119
2322917	Hexazinone	99.9	90.4	P/P	68 - 172
2322917	Imazalil	84.9	84.1	P/P	48 - 283
2322917	Iprodione	100	106	P/P	38 - 140
2322917	Loratadine	85.7	90.0	P/P	50 - 150
2322917	Malathion	87.4	89.3	P/P	40 - 137
2322917	Metalaxyl	100	98.7	P/P	21 - 129
2322917	Metolachlor	93.2	89.5	P/P	55 - 122
2322917	Metribuzin	85.6	95.2	P/P	38 - 187
2322917	Mevinphos	95.1	89.0	P/P	54 - 134
2322917	Molinate	67.2	72.8	P/P	41 - 97.0
2322917	Myclobutanil	104	92.3	P/P	56 - 125
2322917	Naled	106	106	P/P	10 - 108
2322917	Napropamide	88.8	76.7	P/P	50 - 150
2322917	Norflurazon	87.7	85.0	P/P	32 - 122
2322917	Octinoxate	78.4	79.2	P/P	25 - 150
2322917	Oxadiazon	81.6	76.2	P/P	40 - 119
2322917	Oxybenzone	83.6	86.2	P/P	59 - 147
2322917	Oxyfluorfen	146	136	P/P	61 - 153
2322917	Parathion Ethyl	79.3	82.3	P/P	59 - 130
2322917	Parathion Methyl	115	120	P/P	65 - 155
2322917	Pendimethalin	96.3	95.0	P/P	49 - 138
2322917	Phenytoin	54.2	51.8	P/P	50 - 200
2322917	Phorate	91.6	85.9	P/P	54 - 161
2322917	Prodiamine	75.2	65.7	P/P	33 - 161
2322917	Prometon	62.9	72.8	P/P	48 - 140
2322917	Prometryn	87.7	87.0	P/P	55 - 134

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322917	Pronamide	120	109	P/P	66 - 137
2322917	Propanil	106	94.3	P/P	50 - 150
2322917	Propargite	69.8	57.5	P/P	50 - 200
2322917	Propiconazole	86.3	83.6	P/P	36 - 150
2322917	Pyraflufen Ethyl	89.2	91.6	P/P	50 - 150
2322917	Pyridaben	78.5	80.8	P/P	50 - 200
2322917	Pyriproxyfen	82.7	75.0	P/P	10 - 165
2322917	Simazine	78.9	83.9	P/P	57 - 145
2322917	Stiropfos	69.7	56.5	P/P	50 - 150
2322917	Sulfentrazone	99.1	93.3	P/P	34 - 140
2322917	Tebuconazole	63.3	50.3	P/P	10 - 127
2322917	Terbufos	120	119	P/P	59 - 138
2322917	Terbuthylazine	86.4	82.1	P/P	68 - 119
2322917	Thiobencarb	78.0	79.2	P/P	50 - 150
2322917	Triadimefon	104	106	P/P	50 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P413546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322011	Fluoride	100	100	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P413450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322909	Organic Carbon	93.3	94.4	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P413818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2325686	Organic Carbon	90.2	93.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322739	Turbidity	3.96	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322907	Ammonia-N	0.432	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322782	Kjeldahl Nitrogen	9.24	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322780	Kjeldahl Nitrogen	0.958	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322784	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322786	Total-P	2.09	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322012	Total-P	0.389	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P413158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322917	Acetochlor	11.5	Spike	P	0 - 27
2322917	Alachlor	7.77	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P413158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322917	Ametryn	0.0780	Spike	P	0 - 34
2322917	Atrazine	0.258	Spike	P	0 - 41
2322917	Atrazine Desethyl	32.4	Spike	P	0 - 38
2322917	Avobenzone	2.85	Spike	P	0 - 30
2322917	Azinphos Methyl	10.7	Spike	P	0 - 62
2322917	Azoxystrobin	0.935	Spike	P	0 - 32
2322917	Bromacil	17.4	Spike	P	0 - 30
2322917	Butylate	24.0	Spike	P	0 - 59
2322917	Caffeine	46.2	Spike	P	0 - 60
2322917	Carbophenothion	10.6	Spike	P	0 - 25
2322917	Carfentrazone Ethyl	12.6	Spike	P	0 - 26
2322917	Chlorfenapyr	12.7	Spike	P	0 - 30
2322917	Chlorpyrifos Ethyl	8.98	Spike	P	0 - 27
2322917	Chlorpyrifos Methyl	2.83	Spike	P	0 - 26
2322917	Coumaphos	17.2	Spike	P	0 - 30
2322917	Cyanazine	0.705	Spike	P	0 - 58
2322917	Cyprodinil	9.25	Spike	P	0 - 30
2322917	Demeton	11.1	Spike	P	0 - 25
2322917	Diazinon	6.66	Spike	P	0 - 29
2322917	Difenoconazole	11.8	Spike	P	0 - 25
2322917	Dimethenamid	12.8	Spike	P	0 - 30
2322917	Dimethomorph	13.0	Spike	P	0 - 30
2322917	Disulfoton	9.67	Spike	P	0 - 33
2322917	Dithiopyr	8.75	Spike	P	0 - 22
2322917	EPTC	12.5	Spike	P	0 - 38
2322917	Ethion	29.9	Spike	P	0 - 79
2322917	Ethoprop	1.88	Spike	P	0 - 23
2322917	Etridiazole	5.76	Spike	P	0 - 30
2322917	Fenamiphos	19.1	Spike	P	0 - 58
2322917	Fenbuconazole	4.72	Spike	P	0 - 37
2322917	Fipronil	9.52	Spike	P	0 - 33
2322917	Fipronil Desulfinyl	7.43	Spike	P	0 - 26
2322917	Fipronil Sulfide	5.81	Spike	P	0 - 37
2322917	Fipronil Sulfone	13.0	Spike	P	0 - 50
2322917	Fluazifop-P-butyl	7.21	Spike	P	0 - 24
2322917	Fludioxonil	4.20	Spike	P	0 - 26
2322917	Flumioxazin	11.8	Spike	P	0 - 37
2322917	Flutolanil	1.83	Spike	P	0 - 26
2322917	Fluxapyroxad	8.31	Spike	P	0 - 34
2322917	Fonofos	8.56	Spike	P	0 - 27
2322917	Hexazinone	10.0	Spike	P	0 - 36
2322917	Imazalil	0.905	Spike	P	0 - 65
2322917	Iprodione	5.04	Spike	P	0 - 33
2322917	Loratadine	4.67	Spike	P	0 - 30
2322917	Malathion	2.10	Spike	P	0 - 44
2322917	Metalaxyl	1.27	Spike	P	0 - 38
2322917	Metolachlor	4.06	Spike	P	0 - 36
2322917	Metribuzin	10.6	Spike	P	0 - 63
2322917	Mevinphos	6.61	Spike	P	0 - 26
2322917	Molinate	8.06	Spike	P	0 - 40
2322917	Myclobutanil	11.5	Spike	P	0 - 21

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P413158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322917	Naled	0.494	Spike	P	0 - 26
2322917	Napropamide	14.6	Spike	P	0 - 30
2322917	Norflurazon	3.11	Spike	P	0 - 24
2322917	Octinoxate	1.06	Spike	P	0 - 30
2322917	Oxadiazon	6.90	Spike	P	0 - 27
2322917	Oxybenzone	3.15	Spike	P	0 - 30
2322917	Oxyfluorfen	6.77	Spike	P	0 - 24
2322917	Parathion Ethyl	3.72	Spike	P	0 - 28
2322917	Parathion Methyl	4.75	Spike	P	0 - 27
2322917	Pendimethalin	1.43	Spike	P	0 - 31
2322917	Phenytoin	4.38	Spike	P	0 - 30
2322917	Phorate	6.50	Spike	P	0 - 27
2322917	Prodiamine	13.5	Spike	P	0 - 52
2322917	Prometon	14.5	Spike	P	0 - 31
2322917	Prometryn	0.769	Spike	P	0 - 28
2322917	Pronamide	9.67	Spike	P	0 - 26
2322917	Propanil	12.1	Spike	P	0 - 30
2322917	Propargite	19.3	Spike	P	0 - 30
2322917	Propiconazole	3.23	Spike	P	0 - 31
2322917	Pyraflufen Ethyl	2.60	Spike	P	0 - 30
2322917	Pyridaben	2.87	Spike	P	0 - 30
2322917	Pyriproxyfen	9.80	Spike	P	0 - 50
2322917	Simazine	6.12	Spike	P	0 - 29
2322917	Stirophos	21.0	Spike	P	0 - 30
2322917	Sulfentrazone	5.95	Spike	P	0 - 33
2322917	Tebuconazole	22.9	Spike	P	0 - 44
2322917	Terbufos	0.615	Spike	P	0 - 29
2322917	Terbuthylazine	4.99	Spike	P	0 - 27
2322917	Thiobencarb	1.51	Spike	P	0 - 30
2322917	Triadimefon	2.56	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P413539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322011	Total Alkalinity	0.697	Sample	P	0 - 5.2

Reference Method: SM 4500-F- C-2011

Batch ID: P413546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322011	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011

Batch ID: P413450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322909	Organic Carbon	1.23	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011
Batch ID: P413818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2325686	Organic Carbon	3.79	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2322917
Field Sample ID: G5SE0123

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	49.7	P	20 - 200
EPA 8270E	Simazine-d10	83.8	P	71 - 140
EPA 8270E	Terbufos-d10	81.9	P	62 - 131
EPA 8270E	Terphenyl-d14	105	P	50 - 124

Lab Sample ID: 2322918
Field Sample ID: G5SE0124

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	52.4	P	20 - 200
EPA 8270E	Simazine-d10	93.1	P	71 - 140
EPA 8270E	Terbufos-d10	96.4	P	62 - 131
EPA 8270E	Terphenyl-d14	102	P	50 - 124

Lab Sample ID: 2322919
Field Sample ID: G5SE0122

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.0	P	20 - 200
EPA 8270E	Simazine-d10	98.5	P	71 - 140
EPA 8270E	Terbufos-d10	93.5	P	62 - 131
EPA 8270E	Terphenyl-d14	120	P	50 - 124

Lab Sample ID: 2322920
Field Sample ID: G5SE0126

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	68.1	P	20 - 200
EPA 8270E	Simazine-d10	98.9	P	71 - 140
EPA 8270E	Terbufos-d10	95.5	P	62 - 131
EPA 8270E	Terphenyl-d14	118	P	50 - 124

Lab Sample ID: 2322921
Field Sample ID: G5SE0125

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	45.2	P	20 - 200
EPA 8270E	Simazine-d10	105	P	71 - 140
EPA 8270E	Terbufos-d10	127	P	62 - 131
EPA 8270E	Terphenyl-d14	122	P	50 - 124

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111781

Included Lab Sample IDs: 2322902, 2322903, 2322904, 2322905, 2322906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111804

Included Lab Sample IDs: 2322907, 2322908, 2322909, 2322910, 2322911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111943

Included Lab Sample IDs: 2322907, 2322908, 2322909, 2322910, 2322911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	96.9	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A111952

Included Lab Sample IDs: 2322907, 2322908, 2322909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	94.7	P/P	90 - 110
Organic Carbon	99.0	94.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A111984

Included Lab Sample IDs: 2322902, 2322903, 2322904, 2322905, 2322906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	94.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A111984

Included Lab Sample IDs: 2322902, 2322903, 2322904, 2322905, 2322906

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	99.5	P/P	90 - 110
Fluoride	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112010

Included Lab Sample IDs: 2322907, 2322908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112034

Included Lab Sample IDs: 2322917, 2322918, 2322919, 2322920, 2322921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112034

Included Lab Sample IDs: 2322917, 2322918, 2322919, 2322920, 2322921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	99.5		P	80 - 120
Octinoxate	90.4		P	80 - 120
Oxybenzone	101		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112035

Included Lab Sample IDs: 2322909, 2322910, 2322911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112054

Included Lab Sample IDs: 2322907, 2322908, 2322909, 2322910

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	97.7	P/P	90 - 110
Kjeldahl Nitrogen	97.7	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112072

Included Lab Sample IDs: 2322917, 2322918, 2322919, 2322920, 2322921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	111		P	80 - 120
Alachlor	113		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	118		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	110		P	80 - 120
Azoxystrobin	96.8		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	115		P	80 - 120
Caffeine	93.2		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	110		P	80 - 120
Chlorfenapyr	109		P	80 - 120
Chlorpyrifos Ethyl	99.8		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	113		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	118		P	80 - 120
Difenoconazole	109		P	80 - 120
Dimethenamid	107		P	80 - 120
Dimethomorph	93.4		P	80 - 120
Disulfoton	107		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	94.3		P	80 - 120
Ethion	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112072

Included Lab Sample IDs: 2322917, 2322918, 2322919, 2322920, 2322921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	101		P	80 - 120
Etridiazole	112		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	110		P	80 - 120
Fipronil	120		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	99.5		P	80 - 120
Fluazifop-P-butyl	105		P	80 - 120
Fludioxonil	120		P	80 - 120
Flumioxazin	85.2		P	80 - 120
Flutolanil	115		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	111		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	118		P	80 - 120
Iprodione	113		P	80 - 120
Loratadine	82.6		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	117		P	80 - 120
Metribuzin	98.9		P	80 - 120
Mevinphos	111		P	80 - 120
Molinate	93.3		P	80 - 120
Myclobutanil	109		P	80 - 120
Naled	98.9		P	80 - 120
Napropamide	113		P	80 - 120
Norflurazon	115		P	80 - 120
Oxadiazon	116		P	80 - 120
Oxyfluorfen	118		P	80 - 120
Parathion Ethyl	94.7		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	117		P	80 - 120
Phenytol	114		P	80 - 120
Phorate	99.3		P	80 - 120
Prodiamine	119		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	112		P	80 - 120
Propanil	106		P	80 - 120
Propargite	117		P	80 - 120
Propiconazole	120		P	80 - 120
Pyraflufen Ethyl	118		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	94.5		P	80 - 120
Sulfentrazone	108		P	80 - 120
Tebuconazole	112		P	80 - 120
Terbufos	109		P	80 - 120
Terbutylazine	120		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112072

Included Lab Sample IDs: 2322917, 2322918, 2322919, 2322920, 2322921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	112		P	80 - 120
Triadimefon	119		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112104

Included Lab Sample IDs: 2322911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	95.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A112125

Included Lab Sample IDs: 2322910, 2322911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	91.8	95.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112129

Included Lab Sample IDs: 2322917

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.5		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Imazalil	102		P	80 - 120
Propanil	92.1		P	80 - 120
Terbuthylazine	90.8		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity	95.6				3.96	
EPA 350.1 Rev. 2.0	Ammonia-N	102	108	109			0.432
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.3	101	91.0			9.24
	Kjeldahl Nitrogen	99.6	100	98.8			0.958
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	102	102			0.491
EPA 365.1 Rev. 2.0	Total-P	99.6	90.4	88.6			2.09
	Total-P	97.4	100	99.6			0.389
EPA 8270E	Acetochlor	107	98.8	88.0			11.5
	Alachlor	97.1	110	102			7.77
	Ametryn	79.1	91.3	91.3			0.0780
	Atrazine	113	116	116			0.258
	Atrazine Desethyl	77.6	108	77.5			32.4
	Avobenzone	108	114	111			2.85
	Azinphos Methyl	104	114	103			10.7
	Azoxystrobin	104	100	101			0.935
	Bromacil	77.1	73.5	87.6			17.4
	Butylate	39.4	35.6	45.3			24.0
	Caffeine	88.2	12.9	20.6			46.2
	Carbophenothion	112	105	94.5			10.6
	Carfentrazone Ethyl	109	112	98.9			12.6
	Chlorfenapyr	103	97.5	85.9			12.7
	Chlorpyrifos Ethyl	103	94.6	86.5			8.98
	Chlorpyrifos Methyl	109	115	111			2.83
	Coumaphos	97.8	79.2	94.2			17.2
	Cyanazine	97.7	97.8	98.5			0.705
	Cyprodinil	122	114	104			9.25
	Demeton	92.8	96.3	86.2			11.1
	Diazinon	119	117	125			6.66
	Difenoconazole	147	152	135			11.8
	Dimethenamid	89.5	97.2	85.4			12.8
	Dimethomorph	97.3	97.5	111			13.0
	Disulfoton	111	111	101			9.67
	Dithiopyr	97.3	105	96.4			8.75
	EPTC	43.9	59.8	67.8			12.5
	Ethion	82.8	86.9	64.3			29.9
	Ethoprop	103	95.6	97.4			1.88
	Etridiazole	53.3	65.3	69.2			5.76
	Fenamiphos	109	65.4	79.1			19.1
	Fenbuconazole	86.7	89.3	93.6			4.72
	Fipronil	116	120	109			9.52
	Fipronil Desulfinyl	110	127	118			7.43
	Fipronil Sulfide	107	97.7	92.2			5.81
	Fipronil Sulfone	104	113	98.9			13.0
	Fluazifop-P-butyl	123	111	103			7.21
	Fludioxonil	103	105	100			4.20
	Flumioxazin	136	169	151			11.8
	Flutolanil	78.8	79.9	78.4			1.83
	Fluxapyroxad	88.5	90.7	83.5			8.31
	Fonofos	102	99.4	108			8.56
	Hexazinone	94.7	99.9	90.4			10.0
	Imazalil	133	84.9	84.1			0.905
	Iprodione	98.5	100	106			5.04
	Loratadine	84.5	85.7	90.0			4.67
	Malathion	96.9	87.4	89.3			2.10

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	MS
			LCS	SMP		
EPA 8270E	Metalaxyl	95.1	100	98.7		1.27
	Metolachlor	86.1	93.2	89.5		4.06
	Metribuzin	89.0	85.6	95.2		10.6
	Mevinphos	92.3	95.1	89.0		6.61
	Molinate	75.2	67.2	72.8		8.06
	Myclobutanil	93.0	104	92.3		11.5
	Naled	95.7	106	106		0.494
	Napropamide	78.2	88.8	76.7		14.6
	Norflurazon	87.6	87.7	85.0		3.11
	Octinoxate	70.4	78.4	79.2		1.06
	Oxadiazon	81.7	81.6	76.2		6.90
	Oxybenzone	77.6	83.6	86.2		3.15
	Oxyfluorfen	128	146	136		6.77
	Parathion Ethyl	96.8	79.3	82.3		3.72
	Parathion Methyl	124	115	120		4.75
	Pendimethalin	92.9	96.3	95.0		1.43
	Phenytoin	39.1	54.2	51.8		4.38
	Phorate	102	91.6	85.9		6.50
	Prodiamine	49.5	75.2	65.7		13.5
	Prometon	90.9	62.9	72.8		14.5
	Prometryn	82.1	87.7	87.0		0.769
	Pronamide	105	120	109		9.67
	Propanil	90.9	106	94.3		12.1
	Propargite	62.1	69.8	57.5		19.3
	Propiconazole	92.0	86.3	83.6		3.23
	Pyraflufen Ethyl	98.5	89.2	91.6		2.60
	Pyridaben	89.3	78.5	80.8		2.87
	Pyriproxyfen	85.2	82.7	75.0		9.80
	Simazine	82.4	78.9	83.9		6.12
	Stirophos	66.6	69.7	56.5		21.0
	Sulfentrazon	66.0	99.1	93.3		5.95
	Tebuconazole	54.4	63.3	50.3		22.9
	Terbufos	111	120	119		0.615
	Terbuthylazine	87.0	86.4	82.1		4.99
	Thiobencarb	74.4	78.0	79.2		1.51
	Triadimefon	102	104	106		2.56
SM 2320 B-2011	Total Alkalinity	98.9			0.697	
SM 4500-F- C-2011	Fluoride	98.8	100	100		0.0
SM 5310 B-2011	Organic Carbon	95.9	94.4	93.3		1.23
	Organic Carbon	97.2	90.2	93.8		3.79

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2322902, 2322903, 2322904, 2322905, 2322906
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2322907, 2322908, 2322909, 2322910, 2322911
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2322907, 2322908, 2322909, 2322910, 2322911
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2322907, 2322908, 2322909, 2322910, 2322911
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2322907, 2322908, 2322909, 2322910, 2322911

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2322917, 2322918, 2322919, 2322920, 2322921
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2322917, 2322918, 2322919, 2322920, 2322921
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2322902, 2322903, 2322904, 2322905, 2322906
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2322902, 2322903, 2322904, 2322905, 2322906
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2322902, 2322903, 2322904, 2322905, 2322906
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2322907, 2322908, 2322909, 2322910, 2322911

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	04/28/2022			04/28/2022 13:42	Khloe J Berg	2322903
	04/28/2022			04/28/2022 13:47	Khloe J Berg	2322902
	04/28/2022			04/28/2022 13:49	Khloe J Berg	2322904
	04/28/2022			04/28/2022 13:51	Khloe J Berg	2322905
	04/28/2022			04/28/2022 13:52	Khloe J Berg	2322906
EPA 350.1 Rev. 2.0	04/28/2022			05/05/2022 14:51	Judith K. Clark	2322907
	04/28/2022			05/05/2022 14:55	Judith K. Clark	2322908
	04/28/2022			05/05/2022 14:57	Judith K. Clark	2322909
	04/28/2022			05/05/2022 14:58	Judith K. Clark	2322910
	04/28/2022			05/05/2022 14:59	Judith K. Clark	2322911
EPA 351.2 Rev. 2.0	04/28/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 17:04	Alexandra J Mattheus	2322907
	04/28/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 17:09	Alexandra J Mattheus	2322908
	04/28/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 17:11	Alexandra J Mattheus	2322909
	04/28/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 17:12	Alexandra J Mattheus	2322910
	04/28/2022	05/11/2022 13:28	Alexandra J Mattheus	05/12/2022 12:50	Alexandra J Mattheus	2322911
EPA 353.2 Rev. 2.0	04/28/2022			04/29/2022 10:51	Beverly Y. Sanders	2322907
	04/28/2022			04/29/2022 10:52	Beverly Y. Sanders	2322908
	04/28/2022			04/29/2022 10:54	Beverly Y. Sanders	2322909
	04/28/2022			04/29/2022 10:55	Beverly Y. Sanders	2322910
	04/28/2022			04/29/2022 10:56	Beverly Y. Sanders	2322911
EPA 365.1 Rev. 2.0	04/28/2022	05/05/2022 14:45	Simonne.V. Calhoun	05/09/2022 16:03	James L Waggeberby	2322907
	04/28/2022	05/05/2022 14:45	Simonne.V. Calhoun	05/09/2022 16:04	James L Waggeberby	2322908
	04/28/2022	05/09/2022 14:45	Simonne.V. Calhoun	05/10/2022 15:07	James L Waggeberby	2322909
	04/28/2022	05/09/2022 14:45	Simonne.V. Calhoun	05/10/2022 15:08	James L Waggeberby	2322910
	04/28/2022	05/09/2022 14:45	Simonne.V. Calhoun	05/10/2022 15:09	James L Waggeberby	2322911
EPA 8270E	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/04/2022 18:47	Vandana T. Nagar	2322917
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/05/2022 22:22	Lipi Saha	2322917
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/05/2022 23:11	Lipi Saha	2322918
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/05/2022 23:35	Lipi Saha	2322919
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/05/2022 23:59	Lipi Saha	2322920
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 00:24	Lipi Saha	2322921
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 16:03	Vandana T. Nagar	2322917
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 16:55	Vandana T. Nagar	2322918
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 17:22	Vandana T. Nagar	2322919
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 17:48	Vandana T. Nagar	2322920
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 18:14	Vandana T. Nagar	2322921
	04/28/2022			05/03/2022 09:54	Dale L. Simmons	2322902
	04/28/2022			05/03/2022 10:07	Dale L. Simmons	2322903
	04/28/2022			05/03/2022 10:21	Dale L. Simmons	2322904
	04/28/2022			05/03/2022 10:34	Dale L. Simmons	2322905
SM 2320 B-2011	04/28/2022			05/03/2022 09:54	Dale L. Simmons	2322902
	04/28/2022			05/03/2022 10:07	Dale L. Simmons	2322903
	04/28/2022			05/03/2022 10:21	Dale L. Simmons	2322904
	04/28/2022			05/03/2022 10:34	Dale L. Simmons	2322905

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	04/28/2022			05/03/2022 10:47	Dale L. Simmons	2322906
SM 2540 D-2011	04/28/2022			05/03/2022 14:33	Yijie Li	2322902, 2322903, 2322904, 2322905, 2322906
SM 4500-F- C-2011	04/28/2022			05/03/2022 05:23	Dale L. Simmons	2322902
	04/28/2022			05/03/2022 05:28	Dale L. Simmons	2322903
	04/28/2022			05/03/2022 05:33	Dale L. Simmons	2322904
	04/28/2022			05/03/2022 05:45	Dale L. Simmons	2322905
SM 5310 B-2011	04/28/2022			05/03/2022 06:24	Dale L. Simmons	2322906
	04/28/2022			05/05/2022 19:42	Khloe J Berg	2322909
	04/28/2022			05/05/2022 20:33	Khloe J Berg	2322908
	04/28/2022			05/06/2022 02:17	Khloe J Berg	2322907
	04/28/2022			05/12/2022 20:08	Khloe J Berg	2322910
	04/28/2022			05/12/2022 20:21	Khloe J Berg	2322911